

TI-25489.1

**In the claims:**

Claims 1-10 (canceled)

11. (canceled)

12. (canceled)

13. (canceled)

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amendment  
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A.A  
4/29/05

14. (previously presented) : An improved speech recognition system comprising:

a speech recognizer; and

a source normalization model coupled to said recognizer for recognizing incoming speech; said model derived by a method of source normalization training for HMM modeling comprising the steps of:

a) providing an initial speech recognition model and

b) performing on said initial speech recognition model the following steps to get a new speech recognition model:

b<sub>1</sub>) estimation of intermediate quantities;

b<sub>2</sub>) performing re-estimation to determine probabilities;

b<sub>3</sub>) deriving mean vector and bias vector; and

b<sub>4</sub>) solving jointly for mean vector and bias vector.

15.(previously presented) : The recognizer of Claim 14 including the step b<sub>5</sub>) of replacing old speech recognition model for the calculated ones and step c ) determining after a new speech recognition model is formed if it differs significantly from the previous speech recognition model and if so repeating the steps b<sub>1</sub>-b<sub>5</sub>.